

November 30

$$\frac{2}{4} \times 24 = 12$$

$$\frac{3}{8} \times 24 = 9$$

$$2\frac{4}{2} \times 24 = 48$$

Subtracting in parts

When subtracting try subtracting the number you are taking away in parts.

Ex. $135 - 69$

$$\begin{array}{r} 135 \\ - 69 \\ \hline \end{array}$$

$$135 - 60 = 75$$

$$75 - 9 = 66$$

$$1. \quad 75 - 36 = 39$$

$$2. \quad 62 - 23 = 39$$

$$3. \quad 120 - 57 = 63$$

$$4. \quad 800 - 53 = 747$$

$$5. \quad 1000 - 475 = 525$$

Ten Toss

Brandon L.		
<u>Result</u>	<u>Score</u>	
$(+6) + (-4)$	$+2$	0 (-4)
$(+5) + (-5)$	$+2$ (-2)	
$(-7) + (+3)$		

+14

+19

+10

+8

+1

+14

+3

+8

+21

+6

+19

December 4/06

1. $\frac{2}{5} \times 25 = 10$

2. $\frac{2}{3} \times 12 = 8$

3. $\frac{6}{8} \times 48 = 36$

December 4 #2

1. $\frac{4}{2} \times 18$

36

2. $\frac{4}{6} \times 18$

12

3. $\frac{3}{9} \times 18$

6

December 5th /06

mental math

$$\frac{2}{8} \times 80 = 20$$

$$\frac{3}{5} \times 2000 = 1200$$

$$\frac{3}{5} \times 4000 = 2400$$

$$\frac{2}{6} \times \frac{66}{22} = 1$$

$$\frac{6}{3} \times 24 = 48$$

$$\frac{4}{9} \times 72 = 32$$

$$8 \times 14$$

$$4 \times 28$$

$$2 \times 56 = 112$$

$$6 \times 12$$

$$3 \times 24$$

$$3 \text{ days} = 72 \text{h.}$$

$$3 \times 25 = 75 - 3 = 72$$

$$8 \times 23$$

$$4 \times 46$$

$$2 \times 92$$

$$\begin{array}{r} 160 \\ + \quad 24 \\ \hline 184 \end{array}$$

December 12/06

1) 14×45 $7 \times 90 = 630$

2) 16×16 256 $(3x)$

3) $74 \times 4 = 296$

$75 \times 4 = 300 - 4$

Mental Math December 15th

1. 16×24 384

2. 8×17 136

3. 16×13 208

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December 18/06

$$1.) \quad 12 \times 225 = 2700$$

$$2.) \quad 8 \times 18 = 144$$

$$3.) \quad 15 \times 4 = 60$$

$$, 4.) \quad 450 \times 18 = 8100$$

January 10/07

Bridging Decimals

1) $1.5 + 2.6 + 3.7 = 7.8$

2) $1.8 + 1.5 + 2.3 = 5.6$

3) $0.25 + 0.28 + 0.23 = 0.76$

January 11/07
Bridging Decimals

1. $12.7 + 3.9 = 16.6$
 15.7
 0.9

2. $\cancel{\$2.7} + \cancel{\$1.8} + \cancel{\$4.4} = 8.9$
 4.5
 3.7
 8.5

3. $\cancel{\$0.54} + \cancel{\$0.17} + \cancel{\$0.25} = 0.96$
 0.71
 0.64
 0.91

January 12/07

1. $1.6 + 0.7 + 2.4 = 4.7$

Handwritten red annotations: A red arc connects 1.6 and 0.7, with 2.3 written below it. Another red arc connects 0.7 and 2.4, with 4.3 written above it.

2. $0.25 + 0.09 + 0.18 + 0.36 = 0.88$

Handwritten green annotations: A green arc connects 0.25 and 0.09, with 0.34 written below it. Another green arc connects 0.18 and 0.36, with 0.54 written below it. The number 0.44 is circled in green above the plus sign between 0.09 and 0.18. The final result 0.88 is circled in green.

3. $1.55 + 1.15 + 1.30 = 4$

Handwritten green annotations: A green arc connects 1.55 and 1.15, with 2.70 written above it. Another green arc connects 1.15 and 1.30, with 2.45 written above it. The final result 4 is circled in green.

January 15/07

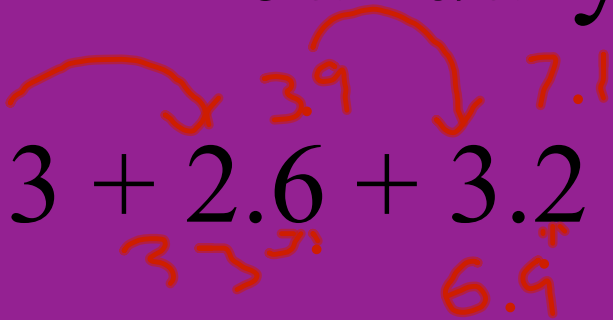
1. $1.45 + 2.35 = 3.8$

2. $1.55 + 2.25 + 3.13 = 6.93$

3. $3.25 + 1.10 + 2.25 + 1.65 = 8.25$

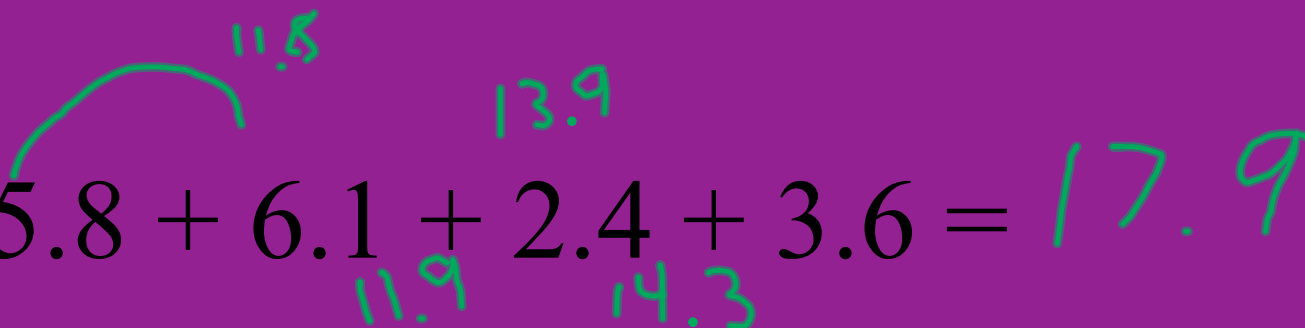
January 17/07

1. $1.3 + 2.6 + 3.2 = 7.1$



2. $1.87 + 2.92 + 1.2 = 5.99$

3. $5.8 + 6.1 + 2.4 + 3.6 = 17.9$



January 18 /07

$$1. \textcircled{2.4} + 7.2 + 3.1 = 12.7$$

Handwritten annotations: 9.6 (above 7.2), 9.4 (below 2.4), 12.6 (below 7.2)

$$2. \textcircled{\$1.54} + \$6.23 + \$2.81 = \text{~~10.58~~} \$10.58$$

Handwritten annotations: 7.54 (above 6.23), 9.77 (above 2.81), 7.77 (below 6.23), 10.57 (below 2.81)

$$3. \textcircled{\$2.25} + \$3.30 + \$5.48 = 11.03$$

Handwritten annotations: 5.55 (above 3.30), 10.95 (above 5.48), 5.25 (below 2.25), 10.55 (below 3.30)

January 22/07

1. $\$4.36 + \$2.25 + 6.86 = 13.47$

2. $3.8 + 2.2 + 4.5 + 8.3 = 18.8$

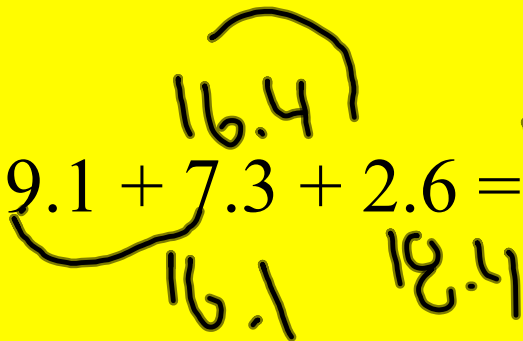
3. $7.7 + 2.3 + 8.2 + 1.9 = 20.1$

January 24 /07

1. $2.3 + 4.5 + 6.2 = 13$

2. $6.3 + 3.1 + 2.42 = 11.82$

3. $9.1 + 7.3 + 2.6 = 19.0$



Handwritten calculation for problem 3:
 $9.1 + 7.3 = 16.4$
 $16.4 + 2.6 = 19.0$

January 25/07

1. $4.5 + 8.65 + 9.2 = 22.35$

2. $1.23 + 2.54 + 6.12 = 9.89$

3. $5.4 + 3.2 + 6.8 = 15.4$

Tacking on Zeros

Ex.

$$5 \times 1000 = 5000$$

$$6 \times 70 = 420$$

$$2\cancel{0}\overline{)20\cancel{0}}^{10}$$

$$3\cancel{0}\overline{)56\cancel{0}}^{18.6}$$

$$\begin{array}{r} 18.6 \\ -54 \\ \hline 20 \end{array}$$

Eliminating zeros


$$60 \times \textcircled{0.1} = 6$$

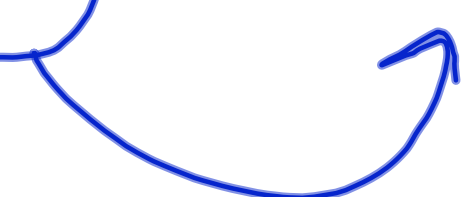
$$\frac{1}{10}$$

$$60 \div 10 = 6$$

$$\underline{5.82} \times 1000 = 5820$$

$$\underline{800} \times 0.01 = 8$$

$$9 \times 60 = 540$$


$$73 \times 1000 = 73000$$


$$25\% \times 80 = 20$$

$$\frac{1}{4} \times 80 = 20$$

$$0.25 \times 80 = 20$$

$$\begin{array}{r} 25 \\ \times 0.8 \\ \hline 200 \end{array}$$

$$80 \times 0.01 = 0.8$$

1. $4 \times 70 = 280$

2. $9 \times 0.01 = 0.09$

3. $22 \times 1000 = 22\,000$

4. $10\% \times 99 = 9.9$

5. $400 \div 40 = 10$

$$1) 5 \times 70 = 350$$

$$2) 14 \times 0.01 = 0.14$$

$$3) 360 \div 60 = 6$$

$$4) 17 \times 25 = 425 \leftarrow$$

$$5) 893 \times 0.001 = 0.893$$

$$\begin{array}{r} 16 \\ \times 17 \\ \hline \end{array}$$

$$\begin{aligned} 7 \times 10 &= 70 \\ 10 \times 6 &= 60 \\ 10 \times 10 &= 100 \end{aligned}$$

$$230$$

$$16 + 7 = 23$$

$$23 \times 10 = 230$$

$$\begin{array}{r} \checkmark 7 \times 6 = 42 \\ \hline 272 \end{array}$$

1. $622 \times 0.0001 = 0.0622$

2. $490 \div 70 = 7$

3. $17 \times 19 = 323$

4. $19 \times 25 = 475$

5. $6000 \div 100$

$6000 \times 0.01 = 60$

February 1/07

$$1. \quad 8965 \div 10000$$

(Note: Above the division is a handwritten $\times 0.001$ in blue ink. Below the number 8965 is a blue wavy underline.)

$$2. \quad 235 \times 10000 = 23500$$

(Note: Below the number 235 is a blue wavy underline.)


$$3. \quad 17 \times 12 = 204$$

$$4. \quad 26 \times 25 = 650$$

(Note: Below the number 26 is a red wavy underline.)

$$5. \quad 25\% \times 800 = 200$$

$$4 \times 25 = 100$$

$$(26) \times 25$$


$$22 \times 25 + 100$$

$$18 \times 25 + 200$$

$$\underline{26}$$

$$4 \times 25$$

$$4 \times 25$$

$$4 \times 25$$

$$4$$

$$4$$

$$4$$

$$4$$

$$2$$

$$1. \quad \overset{462 \times 6\%}{462} \times 0.01 = 4.62$$

$$2. \quad \underbrace{395} \div 100 = 3.95$$

$$3. \quad \frac{1}{5} 20\% \times \underbrace{200} = 40$$

$$4. \quad 13 \times 19 = 247$$

$$5. \quad 25 \times 42 \quad 1050$$

—

$$16 \times 17$$

$$\begin{array}{r} 16 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ \times 16 \\ \hline \end{array}$$

$$6 \times 7 = 42$$

$$\begin{array}{r} 6 \times 10 \\ 7 \times 10 \\ 10 \times 10 \\ \hline 23 \times 10 \end{array}$$

$$4 \times 25 = 100$$

$$(17) \times 25$$

4
4
4
4
—

$$40 \times 25$$

$$10 \times 100 = 1000$$

$$18 \times 25 = 450$$

$$(4 \times 4 \times 25 = 400)$$

$$2 \times 25 = \frac{50}{450}$$

$$4 \times 4 \times 25$$

$$16 \times 25$$

$$2 \times 25$$

$$\begin{array}{r} 18 \\ \times 25 \\ \hline \end{array}$$

February 6/07 compatible numbers

numbers that add to give

1, 10, 100, 1000



1. $0.52 + \underline{0.48} = 1$

2. $0.69 + \underline{0.31} = 1$

3. $\underline{0.64} + 0.36 = 1$

$$4. \underline{0.12} + 0.88 = 1$$

$$5. 0.41 + \underline{0.59} = 1$$

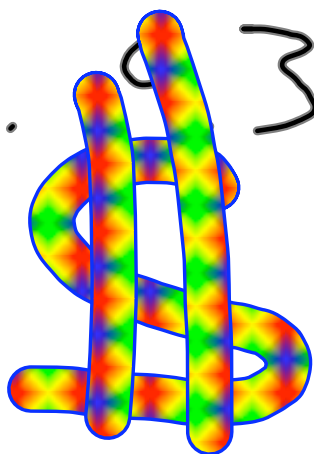
$$1. \quad 2.45 + \underline{7.55} = 10.00$$

$$2. \quad 4.51 + \underline{5.49} = 10.00$$

$$3. \quad \underline{6.31} + 3.69 = 10.00$$

$$4. \quad \underline{4.26} + 5.74 = 10$$

$$5. \quad 9.38 + \underline{0.62} = 10$$



$$1. \quad 4.95 + \underline{0.05} = 5.00$$

$$2. \quad 3.69 + \underline{1.31} = 5.00$$

$$3. \quad \underline{3.37} + 1.63 = 5$$

$$4. \quad 1.7 + \underline{3.3} = 5$$

$$5. \quad 8.2 + \underline{1.8} = 10$$

$$1.73 + \underline{0.27} = 2$$

$$3.62 + \underline{1.38} = 5.00$$

$$6.27 + \underline{3.73} = 10$$

$$1. \quad 500 - 125 = 375$$

$$2. \quad 1.35 - 0.65 = 0.7$$

$$3. \quad 6.25 - 1.45 = 4.8/10$$

$$4. \quad 8 - 0.53 = 7.47$$

$$5. \quad 10.00 - 3.50 = 6.5/10$$

February 20 /07

1. $(2) \times 8 \times (5)$ 80

2. $(2) \times 7 \times (15)$ 210

3. $(4) \times 11 \times (50)$ 2200

4. $4\% \times 74$

5. 14×15

$$14 \times 15$$

^

$$2 \times 7 \times 15$$

.

$$13 \times 16$$

$$\underline{14} \times 25$$

$$1. 4 \times 13 \times 25 = 1300$$

$$2. \textcircled{6} \times \textcircled{9} \times \textcircled{500} = 27000$$

$$3. \textcircled{2} \times 19 \times \textcircled{5} = 190$$

$$4. 25 \times 30 = 750$$

$$5. 15\% \times \textcircled{70} = 10.5$$

$$1. 25 \times 5 \times 4 \times 2 = 1000$$

$$2. 2 \times 13 \times 5 \times 5 \times 2 = 1300$$

$$3. 4 \times 7 \times 3 \times 250 = 21000$$

$$4. \underline{2\%} \times 80 = 1.6$$

$$5. \underline{17} \times 12 = 204$$

$$16 \times 17 = 272$$

$$18 \times 15 = 270$$

1. $2 \times 13 \times 5$ 130

2. $2 \times 6 \times 15$ 180

3. $20 \times 7 \times 5$ 700

4. $30 \times 74 = 222$

5. 25×79 1975

$$(+8) - (-5)(+13)$$

$$(-2) - (-4) = (+2)$$

$$17 \times 18 = 306$$

1. $15 \times 3 \times 4 \times 2 = 360$

2. $4 \times 4 \times 15 \times 5 = 1200$

3. $5 \times 5 \times \underline{6} \times 2 \times 2 = 600$

4. $4\% \times 85 = 3.4$

5. $\frac{1}{3} \times 600 = 200$

$$52 \times 25 = 1300$$

$$10 \times 14 = 238$$

$$29 \times 25 = 725$$

$$28 \times 25$$

^

$$4 \times 7 \times 25 = 700$$

↘

$$8 \times 15$$

$$2 \times 4 \times 15 = 120$$

$$8 \times 15$$

⊙ 2 ⊙ 4 ⊙ 3 ⊙ 5 ⊙

$$4 \times 45$$

$$2 \times 2 \times 45$$

$$4 \times 9 \times 5$$

$$12 \times 25$$

$$2 \times 6 \times 25$$

$$4 \times 3 \times 25 = 300$$

$$15 \times 14$$

$$15 \times 2 \times 7$$

$$\boxed{210}$$

1. $18 \times 15 = 270$

2. $28 \times 50 = 1400$

3. $15 \times 36 = 540$

4. $13 \times 25 = 325$
 $13 \times 5 \times 5$

5
 $0.00306 \div 0.00001$

$$14 \times 16 = 224$$

$$28 \times 8$$

$$56 \times 4$$

$$112 \times 2$$

$$27\% \times 27$$

$$0.01 \times 27$$

$$0.27$$

$$\begin{array}{r}
 27 \\
 \times 0.27 \\
 \hline
 20 \times 27 = 540 \quad 7.29 \\
 7 \times 27 = 175 \\
 \hline
 \end{array}$$

$$25\% \times 27$$

$$2.7 \quad 10\% = 0.1 \times 27 = 2.7$$

$$2.7 \quad 10\%$$

$$1.35 \quad 5\%$$

$$6.85$$

$$\underline{515} \div 5$$

$$\underline{500} + \underline{15}$$

$$\begin{array}{r} \underline{500} : \\ \underline{15} = \end{array} \quad \begin{array}{r} 5 \times 100 \\ 5 \times 3 \end{array}$$

$$444 \div 2$$

$$400 \div 2 = 200$$

$$40 \div 2 = 20$$

$$4 \div 2 = \underline{2} +$$

$$222$$

$$636 \div 3 = 212$$

600

200

30

10

6

2

$$648 \div 6$$

$$4 \overline{)36} \div 4$$

$$108$$



$$109$$

1. $1248 \div 4 = 312$

2. $\underline{1208} \div 2 = 604$

3. $24 \overline{)36} \div 12 = 203$

4. $54 \overline{)54} \div 9 = 606$

5. $0.1 \times 432 = 43.2$

$$\frac{3}{4} \times 2400 = 1800$$

1. $639 \div 3 = 213$

2. $\textcircled{816} \div 8 = 102$

3. $918 \div 9 = 102$

4. $\textcircled{2\% \times 62}$ $\begin{array}{r} 1\% = 0.62 \\ 0.62 \\ 1.24 \end{array}$

5. $23\% \times 36$

$$0.23 \times 76$$

$$23\% \times 76$$

$$\frac{1}{4} \times 76 = 19$$

$$2\% \times 76$$

$$\begin{array}{r} 89 \\ 19.00 \\ - 1.52 \\ \hline 17.48 \end{array}$$

$$\begin{array}{r} 0.76 \\ 0.76 \\ \hline 1.52 \end{array}$$

$$1. \quad 217 \div 7 = 31$$

$$2. \quad 126 \div 3 = 42$$

$$3. \quad 814 \div 2 = 407$$

$$4. \quad 2\% \times 13 = 0.26$$

$$5. \quad 25 \times 2 = 50$$

$$. \quad 25 \times 32 = 800$$

$$25 \times 70$$

$$17.50$$

$$\underset{\times 2}{6} \div \underset{\times 2}{0.5} = 12$$

$$12 \div 1 = 12$$

$$\underset{\circlearrowleft \times 4}{6} \div \underset{\circlearrowleft \times 4}{0.25} = 24$$

$$24 \div 1 = 24$$

$$\begin{array}{cc} 4 \div 2 = 2 \\ \times 5 \quad \times 5 \end{array}$$

$$\begin{array}{cc} 20 \div 10 = 2 \\ \times 4 \quad \times 4 \end{array}$$

$$80 \div 40 = 2$$

$$1. \overset{\times 5}{20} \div \overset{\times 5}{\cancel{0.20}} = 20$$

$$2. \overset{\times 2}{8} \div \overset{\times 2}{0.5} = 16$$

$$3. \overset{\times 2}{6} \div \overset{\times 2}{1.5} = 4$$

$$4. \frac{2}{3} \times 1200 = 800$$

$$5. 2\% \times 85 = 1.70$$

$$1. 4 \div 0.25 = 16$$

$$2. 0.1 \overline{)150} = 150$$

$$3. 36 \div 50 = 0.72$$

$$4. \frac{4}{6} \times 48 = 32$$

$$5. 3\% \times 34 = 1.02$$

$$76 \div 100$$

$$1. 16 \times 9 = 144$$

$$2. 19 \times 25 = 475$$

$$3. 3\% \times 350 = 10.5$$

$$4. 4\frac{1}{2} \div \frac{1}{63} \times 1200 = 400$$

$$5. 0.05846 \times 0.00001 = 0.05846$$

$$\frac{2_{\times 100}}{6_{\times 100}} = \frac{200}{600} = \frac{400}{1200}$$